

Meeting Agenda:

I) QA Testing

- a. LEDs
 - i. Tested. No noticeable defects
 - ii. Programmed
- b. Pi Boards
 - i. First Goal – set up communications
 - ii. Power Relays – ensure at least 2 relays work
 - iii. First iteration of code
- c. 555 Timer
 - i. All components but IC are verified
 - ii. Pin Checker?
 - iii. Will voltage divider work?

II) Fabrication

- a. Mount for internal components
- b. Light Bar
- c. Solar Power Mount

III) Power Model

- a. Setup meeting to work on model

-Pin checker to check the pins on our 555 Timer, want to get it working first and then will play around with the voltage going into the timer. Will possibly need a voltage divider

-voltage divider is fine for something to present but if it bounce around too much we will need to revisit it

-stepping down use a voltage regulator

-range of input voltages that effects the voltage its outputting

-if voltage gets too low, we won't capture the logic transitions we will need

-Jason plan on making the mounting equipment out of his wood shop to save on costs

-Abdallah: They tried to control the output of the battery using the load voltage

-control the battery to go below 60% enable charging, above 95% stop charging

-last time they compared the reference voltage with the load voltage which means whenever they have extra voltage, they need to charge the batter and that didn't work

-wants a controller on the battery itself to control when it charges and when it stops charging

- By Friday – get info to Abdallah about how that ICC controls

- By Wednesday: talk to Hess about if our 555 Timer could work for what we want it to

- Kat this weekend: work on programming the pi's